

$U_3(8).3_1 \pmod{7}$

	blocks	defect	matrix
$G :$	1	1	7×6
	2	0	$56_1 = \chi_{2,0}, \varphi_{2,0}$
	3	0	$56_2 = \chi_{2,1}, \varphi_{2,1}$
	$4 = \bar{3}$	0	$56_3 = \chi_{2,2}, \varphi_{2,2}$
	5	1	7×6
	$6 = \bar{5}$	1	7×6
	7	0	$133_1 = \chi_{5,0}, \varphi_{5,0}$
	8	0	$133_2 = \chi_{5,1}, \varphi_{5,1}$
	$9 = \bar{8}$	0	$133_3 = \chi_{5,2}, \varphi_{5,2}$
	10	0	$133_4 = \chi_{6,0}, \varphi_{6,0}$
	11	0	$133_5 = \chi_{6,1}, \varphi_{6,1}$
	$12 = \bar{11}$	0	$133_6 = \chi_{6,2}, \varphi_{6,2}$
	13	0	$133_7 = \chi_{7,0}, \varphi_{7,0}$
	14	0	$133_8 = \chi_{7,1}, \varphi_{7,1}$
	$15 = \bar{14}$	0	$133_9 = \chi_{7,2}, \varphi_{7,2}$
	16	0	$1197_1 = \chi_{8+}, \varphi_{8+}$
	17	0	$1701_1 = \chi_{23+}, \varphi_{14+}$
	$18 = \bar{17}$	0	$1701_2 = \chi_{24+}, \varphi_{15+}$
$3.G :$	19	1	5×2
	$20 = 19^*$		
	21	0	$189_1 = \chi_{32,0}, \varphi_{23,0}$
	22	0	$189_2 = \chi_{32,1}, \varphi_{23,1}$
	23	0	$189_3 = \chi_{32,2}, \varphi_{23,2}$
	$24 = 21^*$		
	$25 = 23^*$		
	$26 = 22^*$		
	27	0	$189_7 = \chi_{33,0}, \varphi_{24,0}$
	28	0	$189_8 = \chi_{33,1}, \varphi_{24,1}$
	29	0	$189_9 = \chi_{33,2}, \varphi_{24,2}$
	$30 = 27^*$		
	$31 = 29^*$		
	$32 = 28^*$		
	33	0	$189_{13} = \chi_{34,0}, \varphi_{25,0}$
	34	0	$189_{14} = \chi_{34,1}, \varphi_{25,1}$
	35	0	$189_{15} = \chi_{34,2}, \varphi_{25,2}$
	$36 = 33^*$		
	$37 = 35^*$		
	$38 = 34^*$		
39	0	$1197_2 = \chi_{35+}, \varphi_{26+}$	
$40 = 39^*$			

	blocks	defect	matrix
	41	0	$1701_3 = \chi_{50+}, \varphi_{32+}$
	$42 = 41^*$		
	$43 = \overline{42}$	0	$1701_5 = \chi_{51+}, \varphi_{33+}$
	$44 = 43^*$		

Block 1:	$\varphi_{1,0}$	$\varphi_{1,1}$	$\varphi_{1,2}$	$\varphi_{13,0}$	$\varphi_{13,1}$	$\varphi_{13,2}$	
$1_1 = \chi_{1,0}$	1	.	.	.	.	.	$\varphi_{1,0} = 1_1$
$1_2 = \chi_{1,1}$	.	1	.	.	.	.	$\varphi_{1,1} = 1_2$
$1_3 = \chi_{1,2}$	.	.	1	.	.	.	$\varphi_{1,2} = 1_3$
$512_1 = \chi_{13,0}$	.	.	.	1	.	.	$\varphi_{13,0} = 512_1$
$512_2 = \chi_{13,1}$	.	.	.	.	1	.	$\varphi_{13,1} = 512_2$
$512_3 = \chi_{13,2}$	.	.	.	.	.	1	$\varphi_{13,2} = 512_3$
$1539_1 = \chi_{14+}$	1	1	1	1	1	1	

Block 5:	$\varphi_{3,0}$	$\varphi_{3,1}$	$\varphi_{3,2}$	$\varphi_{11,0}$	$\varphi_{11,1}$	$\varphi_{11,2}$	
$57_1 = \chi_{3,0}$	1	.	.	.	.	.	$\varphi_{3,0} = 57_1$
$57_2 = \chi_{3,1}$	.	1	.	.	.	.	$\varphi_{3,1} = 57_2$
$57_3 = \chi_{3,2}$	.	.	1	.	.	.	$\varphi_{3,2} = 57_3$
$456_1 = \chi_{11,0}$	.	.	.	1	.	.	$\varphi_{11,0} = 456_1$
$456_2 = \chi_{11,1}$	.	.	.	.	1	.	$\varphi_{11,1} = 456_2$
$456_3 = \chi_{11,2}$	.	.	.	.	.	1	$\varphi_{11,2} = 456_3$
$1539_2 = \chi_{17+}$	1	1	1	1	1	1	

Block 6:	$\varphi_{4,0}$	$\varphi_{4,1}$	$\varphi_{4,2}$	$\varphi_{12,0}$	$\varphi_{12,1}$	$\varphi_{12,2}$	
$57_4 = \chi_{4,0}$	1	.	.	.	.	.	$\varphi_{4,0} = 57_4$
$57_5 = \chi_{4,1}$	.	1	.	.	.	.	$\varphi_{4,1} = 57_5$
$57_6 = \chi_{4,2}$	.	.	1	.	.	.	$\varphi_{4,2} = 57_6$
$456_4 = \chi_{12,0}$	.	.	.	1	.	.	$\varphi_{12,0} = 456_4$
$456_5 = \chi_{12,1}$	.	.	.	.	1	.	$\varphi_{12,1} = 456_5$
$456_6 = \chi_{12,2}$	.	.	.	.	.	1	$\varphi_{12,2} = 456_6$
$1539_3 = \chi_{18+}$	1	1	1	1	1	1	

Blocks 19, 20:	φ_{20+}	φ_{29+}
$171_1 = \chi_{29+}$	1	.
$1368_1 = \chi_{38+}$	.	1
$1539_4 = \chi_{41+}$	1	1
$1539_6 = \chi_{44+}$	1	1
$1539_8 = \chi_{47+}$	1	1

$$\begin{aligned} \varphi_{20+} &= 171_1 \\ \varphi_{29+} &= 1368_1 \end{aligned}$$